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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,397	07/09/2003	Fabrice Villaume	L7307.03150	8487
7590 11/23/2005 STEVENS, DAVIS, MILLER & MOSHER, LLP Suite 850 1615 L Street, NW Washington, DC 20036			EXAMINER NGUYEN, THU V	
			ART UNIT 3661	PAPER NUMBER

DATE MAILED: 11/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/615,397	Applicant(s) VILLAUME ET AL.	
	Examiner Thu Nguyen	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 14-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 November 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The amendment filed on August 30, 2005 has been entered. By this amendment, claims 1-13 have been canceled, claims 20-21 have been added, and claims 14-21 are now pending in the application.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 14-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coquin et al (US 5,668,541) in view of Sekine et al (US 6,067,497) and further in view of Cleary et al (US 4,638,437) and Bubb (DE 33 28 226).

As per claim 14, Coquin teaches a process for aiding the driving of an aircraft running over the ground in an acceleration phase with a view to takeoff (col.2, lines 12-14; col.3, lines 6-11), the process comprises: a current speed (col.2, line 42) and a value K1 representing acceleration/deceleration of the aircraft (col.2, lines 40-41; col.3, lines 65-67) are determined; and calculating the stopping position of the aircraft from distance $(v_{11}t^2/2K1t)$ and the current position D_{1t} of the aircraft (col.3, line 62); presenting the stopping position to a driver (col.4, lines 1-5). Coquin does not explicitly disclose that the acceleration is a predetermined

deceleration value corresponding to the deceleration during emergency braking and does not explicitly disclose calculating distance d_f in a separate procedure from the calculating stopping position, presenting the stopping distance to the driver, and displaying a symbol on the windscreen of the aircraft using heads-up display. However, Coquin teaches stopping distance $d_f (v_{11}^2/2K1t)$ (col.3, line 62) with $K1t$ is a deceleration value ($K1t < 0$) and Sekine teaches calculating stopping distance with a predetermined reference deceleration value (col.4, lines 10-17), moreover, replacing the reference deceleration value taught by Sekine with a known emergency deceleration braking value would have been obvious. Further, Cleary teaches presenting the stopping distance to the driver (col.6, lines 49-62), and Bubb teaches a head-up display capable of displaying the minimum safe braking distance (abstract) on the road surface ahead of the vehicle, moreover, the road surface ahead of the vehicle is well known to normally correspond to the field of view of the driver. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to determine stopping distance and to present the distance to the driver as taught by Sekine and Cleary in the display of Coquin and to replace the display of Coquin with the head up display of Bubb in order to inform the driver of the capability of stopping without passing the run way and to facilitate following up aircraft position and stopping position to the pilot wearing a head up display.

As per claim 15, refer to claim 14 above.

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As per claim 16-18, using inertial devices for determining speed and deceleration of the airplane, and determining the current position of the vehicle using GPS devices would have been well known.

As per claim 19, aiding the pilot for running the vehicle over the ground would have been well known.

As per claim 20-21, refer to claims 14 and 21 above.

Response to Arguments

3. Applicant's arguments have been considered but are moot in view of the new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (571) 272-6967. The examiner can normally be reached on T-F (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 11, 2005



THU V. NGUYEN
PRIMARY EXAMINER